



## Water-Data Report 2008

**01403575 STONY BROOK AT WEST END AVENUE, AT NORTH PLAINFIELD, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°36'51", long 74°26'46" referenced to North American Datum of 1983, Plainfield Borough, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on West End Avenue in North Plainfield, 315 ft southeast from Greenbrook Road, 520 ft northwest from Willow Avenue, and 0.7 mi downstream from Crab Brook.

DRAINAGE AREA.--7.92 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 9.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Time	Sample medium and type	Turbdty	UV	UV	Baro-	Dis-	Dis-	pH,
			white light, det ang 90+/-30 corrctd	absorb- ance, 254 nm, wat flt units	absorb- ance, 280 nm, wat flt units				water, unfltrd field, std units (00400)
N	T	R	U	V	S	O	P	A	W
Nov									
29...	0930	Surface water, regular	3.5	.099	.077	762	11.2	91	8.0
29...	0930	QC - Surface water, split replicate	--	--	--	--	--	--	--
29...	0931	QC - Surface water, concurrent replicate	--	--	--	--	--	--	--
Feb									
25...	1030	Surface water, regular	1.7	.050	.036	760	15.1	115	8.2
May									
27...	0930	Surface water, regular	3.5	.118	.086	757	8.1	84	7.6
Aug									
20...	1000	Surface water, regular	1.7	.056	.041	768	8.0	84	7.9
20...	1000	QC - Surface water, split replicate	--	--	--	--	--	--	--
20...	1001	QC - Surface water, concurrent replicate	--	--	--	--	--	--	--

01403575 STONY BROOK AT WEST END AVENUE, AT NORTH PLAINFIELD, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Specif-ic conductance, wat unf $\mu\text{S}/\text{cm}$				Hard-ness, water, mg/L as CaCO <sub>3</sub>				Magnes-ium, water, mg/L				Potas-sium, water, mg/L				Sodium, water, mg/L				ANC, wat unf			
	25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	water, mg/L as CaCO <sub>3</sub> (00900)	Calci-um, water, filtrd, mg/L (00915)	Magnes-ium, water, filtrd, mg/L (00925)	Potas-sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	CaCO <sub>3</sub> , water, lab, mg/L as CaCO <sub>3</sub> (00940)	end pt, lab, mg/L as CaCO <sub>3</sub> (00940)	Chlor-ide, water, filtrd, mg/L (00950)	Fluor-ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)										
<b>Nov</b>																								
29...	527	6.0	6.2	190	52.3	13.5	1.82	31.0	79	68.9	<.12	16.5	65.4											
29...	--	--	--	180	49.0	13.0	1.90	31.0	81	68.0	.17	--	72.0											
29...	--	--	--	180	49.0	13.0	1.90	31.0	81	66.0	.17	--	71.0											
<b>Feb</b>																								
25...	620	5.5	3.6	160	41.8	12.5	1.32	55.5	56	125	<.12	16.9	43.5											
<b>May</b>																								
27...	469	20.0	17.8	150	40.9	11.8	1.46	26.6	70	63.4	E.07	17.0	45.7											
<b>Aug</b>																								
20...	550	18.5	17.8	200	57.6	13.6	1.96	26.9	88	63.5	<.12	16.7	72.9											
20...	--	--	--	190	56.0	13.0	1.80	26.0	88	76.0	<.05	--	78.0											
20...	--	--	--	200	57.0	13.0	1.90	26.0	88	73.0	<.05	--	79.0											

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Residue water, filtrd, mg/L (70301)	Residue on evap. sum of constituents 180degC wat flt (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, mg/L as N (00623)	Ammonia + org-N, mg/L as N (00625)	Ammonia water, unfiltrd (00608)	Nitrate + Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Partic-ulate susp., mg/L (49570)	Total nitrogen, water, filtrd, mg/L (00602)	Total nitrogen, water, unfiltrd mg/L (00600)	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Phos-phorus, water, filtrd, mg/L as P (00666)	Phos-phorus, water, unfiltrd mg/L as P (00665)
<b>Nov</b>														
29...	302	320	1	.19	--	.019	1.03	E.03	1.2	E1.2	.031	.035	.042	
29...	288	320	<10	E.88	1.2	<.050	.990	--	E1.9	2.2	.100	<.050	<.050	
29...	286	330	<10	E.94	1.7	<.050	1.00	--	E1.9	2.7	.094	<.050	<.050	
<b>Feb</b>														
25...	335	347	4	.16	--	.013	1.16	<.04	1.3	--	.017	.024	.030	
<b>May</b>														
27...	E254	303	4	.39	--	.045	1.14	.06	1.5	1.6	.066	.080	.093	
<b>Aug</b>														
20...		328	3	.14	--	.023	--	.05			.084	.091	.091	
20...	309	360	<10	.13	E.18	<.050	1.20	--	1.3	E1.4	.016	.095	.098	
20...	308	360	<10	<.10	.11	<.050	1.20	--	--	1.3	.019	.093	.100	

01403575 STONY BROOK AT WEST END AVENUE, AT NORTH PLAINFIELD, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic water, filtrd, µg/L (00681)	Arsenic water, filtrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)	Barium, recover-able, µg/L (01007)	Beryllium, water, unfltrd recover-able, µg/L (01012)	Boron, water, unfltrd recover-able, µg/L (01020)	Boron, water, unfltrd recover-able, µg/L (01022)	Cadmium, water, unfltrd recover-able, µg/L (01027)	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Copper, water, unfltrd recover-able, µg/L (01042)
<b>Nov</b>													
29...	.4	<.04	.4	2.8	--	--	--	--	157	--	--	--	--
29...	--	--	--	3.0	--	--	--	--	160	--	--	--	--
29...	--	--	--	2.9	--	--	--	--	160	--	--	--	--
<b>Feb</b>													
25...	.1	<.04	.1	1.7	.37	<.60	60.1	<.04	89	87	.04	E.35	1.2
<b>May</b>													
27...	.4	<.04	.4	4.6	--	--	--	--	109	--	--	--	--
<b>Aug</b>													
20...	.3	<.04	.3	2.0	.61	.65	72.8	<.04	160	174	E.01	E.23	1.5
20...	--	--	--	3.0	--	--	--	--	170	--	--	--	--
20...	--	--	--	3.9	--	--	--	--	170	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Mangan-							
	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	ese, water, unfltrd recover-able, µg/L (01055)	Mercury, water, unfltrd recover-able, µg/L (71900)	Nickel, water, unfltrd recover-able, µg/L (01067)	Selen-ium, water, unfltrd recover-able, µg/L (01147)	Silver, water, unfltrd recover-able, µg/L (01077)	Zinc, water, unfltrd recover-able, µg/L (01092)
<b>Nov</b>								
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
<b>Feb</b>								
25...	117	.19	20.6	<.010	.64	.17	<.02	2.5
<b>May</b>								
27...	--	--	--	--	--	--	--	--
<b>Aug</b>								
20...	37	.16	7.6	<.010	.35	.23	<.02	E1.8
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--